Summary

The Advanced Reactors Transition (ART) Program, WBS 1.12.1.1, PBS RL-TP11, consists of the 309 Building and the Nuclear Energy (NE) Legacies activities.

NOTE: Cost/Schedule data contained herein is as of June 30, 2000. All other information is as of July 20, 2000, unless otherwise noted.

In June the ART mission area technical accomplishments included continued surveillance and maintenance activities on the 309 Building and NE Legacy facilities. The Fast Flux Test Facility (FFTF) Plant Review Committee approved starting the reaction of residual Sodium Potassium (NaK) in the 337B cold trap cooling system, subject to completion of punchlist items. A small amount of NaK (grams) was drained from the low spots in the system in order to obtain a better flow path for the water vapor-nitrogen reaction process. Separation of the cooling system into two parts to obtain better flow control of the water vapor-nitrogen process was completed, and the cleaning station was connected to the "loop side" of the separated system. The argon cover gas is being maintained on both sides of the system. Nitrogen flow through the loop side of the residual NaK in the 337B cold trap cooling system started July 11, 2000.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that there are no milestones due.

Accomplishments

- Continued surveillance and maintenance activities on 309 Building and NE legacies.
- The FFTF Plant Review Committee approved starting the reaction of residual NaK in the 337B cold trap cooling system, subject to completion of punchlist items.
- A small amount of NaK (grams) was drained from the low spots in the system in order to obtain a better flow path for the water vapor-nitrogen reaction process
- Separation of the NaK cooling system into two parts to obtain better flow control of the water vapor-nitrogen process was completed, and the cleaning station was connected to the "loop side" of the separated system.
- Nitrogen flow through the loop side of the residual NaK in the 337 cold trap cooling system started July 11, 2000.

Safety

Safety data for ART is included in a separate FFTF report.

Conduct of Operations / ISMS Status

Conduct of Operations

Conduct of operations data for ART is included in a separate Fast Flux Test Facility (FFTF) report.

ISMS Status

ISMS Readiness Assessment Phase II was completed during the reporting period with excellent results.

Breakthroughs / Opportunities for Improvement

No breakthroughs or opportunities for improvement have been identified at this time.

Upcoming Activities

- Continue with cleaning of the sodium potassium (NaK) residuals from the 337B Building cold trap cooling loop.
- Initiate Fuel Transfer Pit cleanout in the 309 Building/PRTR facility.

Cost Performance ($M):

	BCWP	ACWP	VARIANCE
Advanced Reactors Transition	$1.1	$1.0	$0.1

The favorable $0.1M (10 percent) cost variance is due to no significant corrective maintenance activities required.

Schedule Performance ($M):

	BCWP	BCWS	VARIANCE
Advanced Reactors Transition	$1.1	$1.1	$0.0*

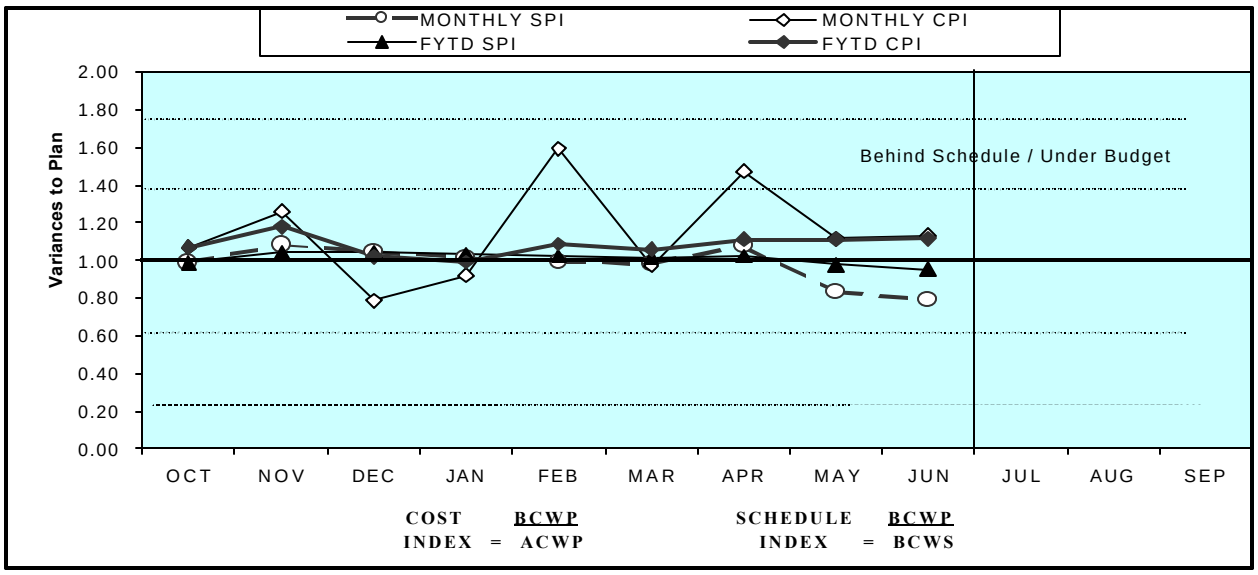
* Due to rounding, variance indicates zero dollars, however there is a schedule variance of ($55K) addressed in this report.

The unfavorable -$0.1M (5 percent) schedule variance is due to splitting the NaK system into two parts for better flow control. The result was not being able to finish some tasks, including design and construction of connecting piping, when originally planned.

FY 2000 Cost/Schedule Performance – All Fund Types Cumulative to Date Status – ($000)

		FYTD								
	By PBS	BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC
PBS TP11 WBS 1.12	Advanced Reactors Transition	$ 1,143	$ 1,088	$ 977	$ (55)	-5%	$ 111	10%	$ 1,673	$ 1,318
	Total	$ 1,143	$ 1,088	$ 977	$ (55)	-5%	$ 111	10%	$ 1,673	$ 1,318

Cost/Schedule Performance Indices (Monthly and FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	1.08	1.05	1.01	0.99	0.98	1.08	0.83	0.79			
MONTHLY CPI	1.07	1.26	0.79	0.92	1.59	0.97	1.47	1.12	1.13			
FYTD SPI	0.99	1.04	1.04	1.03	1.02	1.01	1.02	0.98	0.95			
FYTD CPI	1.07	1.18	1.02	0.99	1.09	1.06	1.11	1.11	1.11			
MONTHLY BCWS	$79	$113	$88	$93	$116	$139	$116	$254	$146	$144	$196	$191
MONTHLY BCWP	$78	$122	$92	$94	$115	$136	$125	$211	$115			
MONTHLY ACWP	$73	$97	$117	$102	$72	$140	$85	$189	$102			
FYTD BCWS	$79	$192	$280	$373	$489	$627	$743	$997	$1,143	$1,286	$1,483	$1,673
FYTD BCWP	$78	$200	$292	$386	$501	$637	$761	$972	$1,088			
FYTD ACWP	$73	$170	$287	$389	$461	$601	$686	$875	$977			

Note: Contains RL-TP11

Cost Variance Analysis: (+$0.1M)

WBS/PBS **Title**

1.12/TP11 **Advanced Reactors Transition**

Description and Cause: All Surveillance and Maintenance (S&M) resources were level loaded for the year. To date, no significant corrective maintenance activities have been required.
Impact: None.
Corrective Action: None.

Schedule Variance Analysis: (-$0.1M)

WBS/PBS **Title**

1.12/TP11 **Advanced Reactors Transition**

Description and Cause: The unfavorable -$0.1M (5 percent) schedule variance is due to splitting the NaK system into two parts for better flow control, resulting in not being able to finish some tasks, including design and construction of connecting piping, when originally planned.
Impact: None.
Corrective Action: None.

Funds Management
Funds vs Spending Forecast ($000)
FY to Date through June 2000
(Fluor Hanford, Inc. only)

		Project Completion *			Post 2006 *			Line Items *		
		Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance
The River										
1.12	Advanced Reactors (EX)				$ 4,172	$ 3,718	$ 454			
	Total Advanced Reactors Operating				**$ 4,172**	**$ 3,718**	**$ 454**			
	Total Advanced Reactors Line Item									

* Non Defense Control Point (EX)

Issues

There is nothing to report at this time.

Baseline Change Requests Currently in Process

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT $000	SCH	TECH	DATE TO CCB	CCB APP'VD	RL APP'VD	CURRENT STATUS
		Nothing to report.							
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report.							

Milestone Achievement

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that there are no milestones due.

Tri-Party Agreement / EA Milestones
Nothing to report.
DNFSB Commitments
Nothing to report.

Milestone Exception Report

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date

Overdue – 0

Forecast Late – 0

Performance Objectives

Nothing to report at this time.

Key Integration Activities

Nothing to report at this time.